



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

Yes  No

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1193158

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1193158

All Electric Logs Run

Microresistivity Log
Dual Compensated Porosity Log
Dual Induction Log
Borehole Compensated Sonic Log
Sonic Cement Bond Log
Gamma Ray / Caliper Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1193158

Tops

Name	Top	Datum
Anhydrite	2416	676
B/ Anhydrite	2434	658
Topeka	3740	-648
Heebner	3977	-885
Toronto	3995	-903
Lansing	4018	-926
C	4056	-964
D	4070	-978
F	4132	-1040
Munice Creek	4204	-1112
H	4214	-1122
I	4244	-1152
J	4281	-1189
Stark Shale	4297	-1205
K	4300	-1208
L	4343	-1251
BKC	4380	-1288
Marmaton	4431	-1339
Altamont	4469	-1377
Pawnee	4516	-1424
Myrick Station	4555	-1463
Fort Scott	4568	-1476
Cherokee	4595	-1503
Johnson Zone	4639	-1547

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1193158

Tops

Name	Top	Datum
Up Morrow Sand	4733	-1641
Missippian	4755	-1663



## Summary of Changes

Lease Name and Number: KREBS 1-5

API/Permit #: 15-171-21004-00-00

Doc ID: 1193158

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Producing Formation	Altamont	Marmaton, Altamont, Fort Scott
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=11 86971	../../../../kcc/detail/operatorE ditDetail.cfm?docID=11 93158



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1186971  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

**CONFIDENTIAL** WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD
- Plug Back       Conv. to GSW     Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD                  Permit #: \_\_\_\_\_
- ENHR                Permit #: \_\_\_\_\_
- GSW                 Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1186971

All Electric Logs Run

Microresistivity Log
Dual Compensated Porosity Log
Dual Induction Log
Borehole Compensated Sonic Log
Sonic Cement Bond Log
Gamma Ray / Caliper Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1186971

Tops

Name	Top	Datum
Anhydrite	2416	676
B/ Anhydrite	2434	658
Topeka	3740	-648
Heebner	3977	-885
Toronto	3995	-903
Lansing	4018	-926
C	4056	-964
D	4070	-978
F	4132	-1040
Munice Creek	4204	-1112
H	4214	-1122
I	4244	-1152
J	4281	-1189
Stark Shale	4297	-1205
K	4300	-1208
L	4343	-1251
BKC	4380	-1288
Marmaton	4431	-1339
Altamont	4469	-1377
Pawnee	4516	-1424
Myrick Station	4555	-1463
Fort Scott	4568	-1476
Cherokee	4595	-1503
Johnson Zone	4639	-1547

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1186971

Tops

Name	Top	Datum
Up Morrow Sand	4733	-1641
Missippian	4755	-1663

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KREBS 1-5
Doc ID	1186971

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	4430-36	750 gal 15% MCA/FE & 4,500 gal gelled 20% acid	4430-36'
2	4462-64' & 4469-71'	1250 gal 15% MCA/FE & 3,000 gal gelled 20% acid	4462-71'
2	4568-71' & 4578-81'	1250 gal 15% MCA/FE & 5,250 gal gelled 20% acid	4568-81'
2	4684-93'	1000 gal 15% MCA/FE & 6,750 gal gelled 20% acid	4684-93'





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600  
Houston TX 77057

ATTN: Terry McLeod

### **Krebs #1-5**

#### **5-17s-33w Scott,KS**

Start Date: 2013.11.26 @ 15:32:00

End Date: 2013.11.26 @ 22:59:39

Job Ticket #: 53286                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.03 @ 13:50:28



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53286

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2013.11.26 @ 15:32:00

## GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:39:55

Time Test Ended: 22:59:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

**Interval: 4441.00 ft (KB) To 4457.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4457.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Inside**

Press@RunDepth: 16.45 psig @ 4442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.26

End Date:

2013.11.26

Last Calib.: 2013.11.26

Start Time: 15:32:00

End Time:

22:59:39

Time On Btm: 2013.11.26 @ 17:39:40

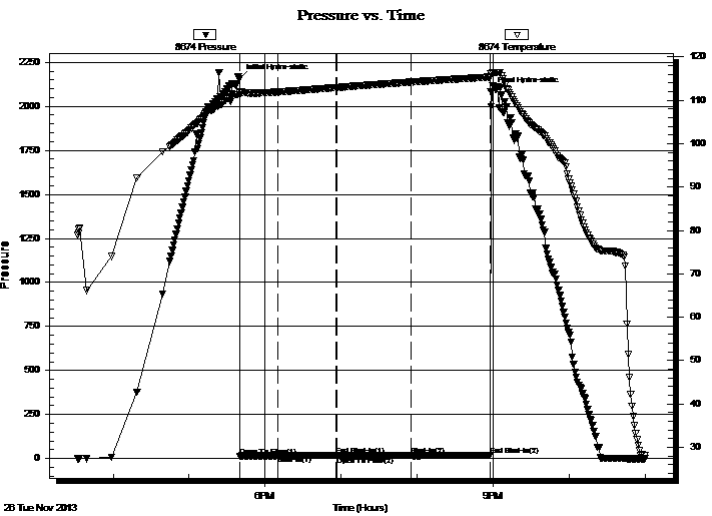
Time Off Btm: 2013.11.26 @ 20:58:09

TEST COMMENT: IF- 1/4" Blow Died Back to Weak Surface Blow

IS- No Blow

FF- No Blow

FS- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.05	112.01	Initial Hydro-static
1	13.39	111.19	Open To Flow (1)
31	15.94	111.92	Shut-In(1)
77	19.48	112.94	End Shut-In(1)
77	15.10	112.95	Open To Flow (2)
136	16.45	114.22	Shut-In(2)
199	19.04	115.39	End Shut-In(2)
199	2083.98	116.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	100%m with Oil Spots	0.01

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53286

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2013.11.26 @ 15:32:00

## Tool Information

Drill Pipe:	Length: 4152.00 ft	Diameter: 3.80 inches	Volume: 58.24 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 18000.00 lb
			<u>Total Volume: 59.60 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4441.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4420.00	
Shut In Tool	5.00			4425.00	
Hydraulic tool	5.00			4430.00	
Safety Joint	2.00			4432.00	
Packer	5.00			4437.00	22.00 Bottom Of Top Packer
Packer	4.00			4441.00	
Stubb	1.00			4442.00	
Recorder	0.00	8355	Outside	4442.00	
Recorder	0.00	8674	Inside	4442.00	
Perforations	10.00			4452.00	
Bullnose	5.00			4457.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53286

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2013.11.26 @ 15:32:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% m with Oil Spots	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

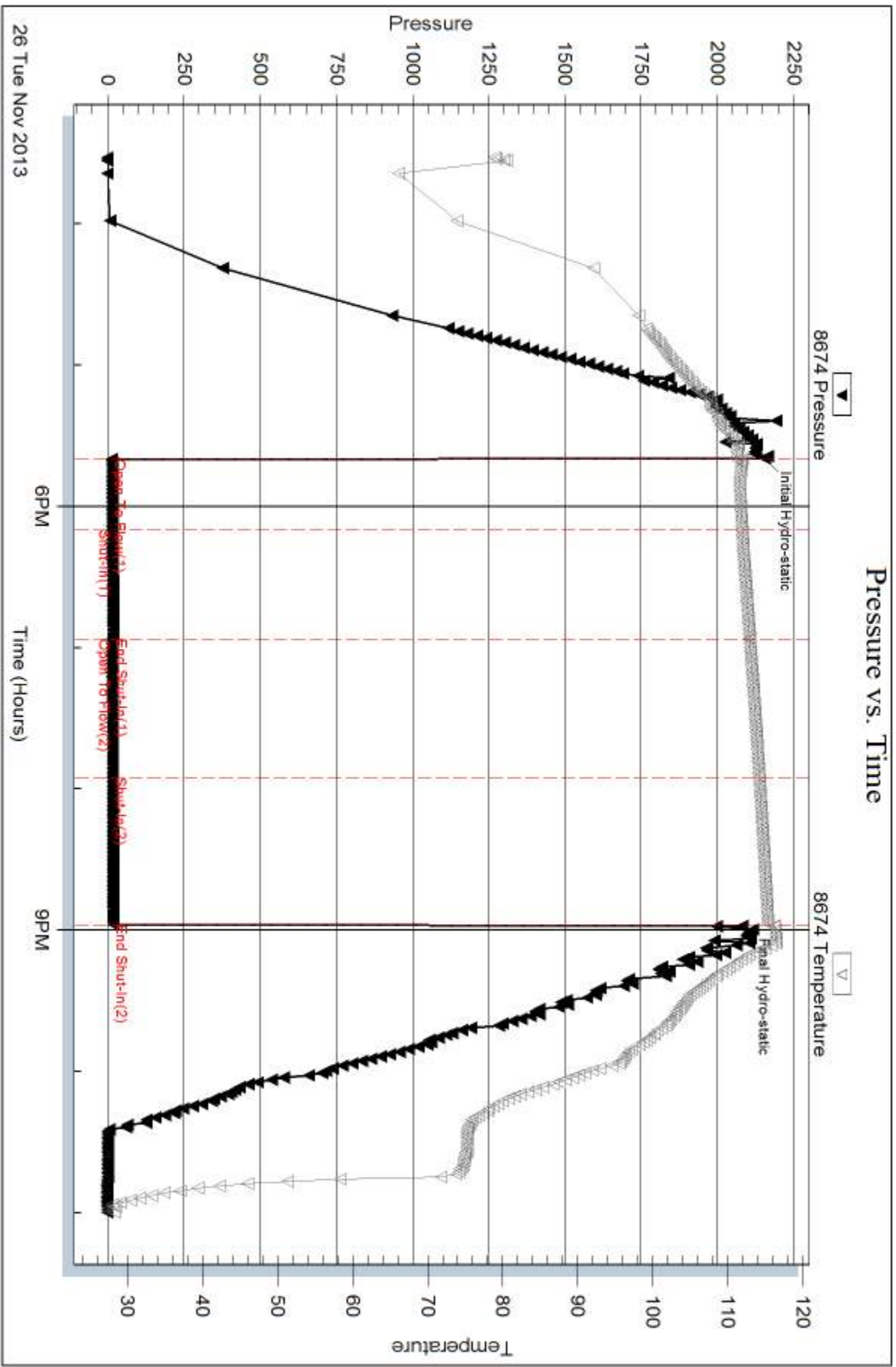
Serial #: 8674

Inside

Landmark Resources Inc.

Kebs #1-5

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 53286

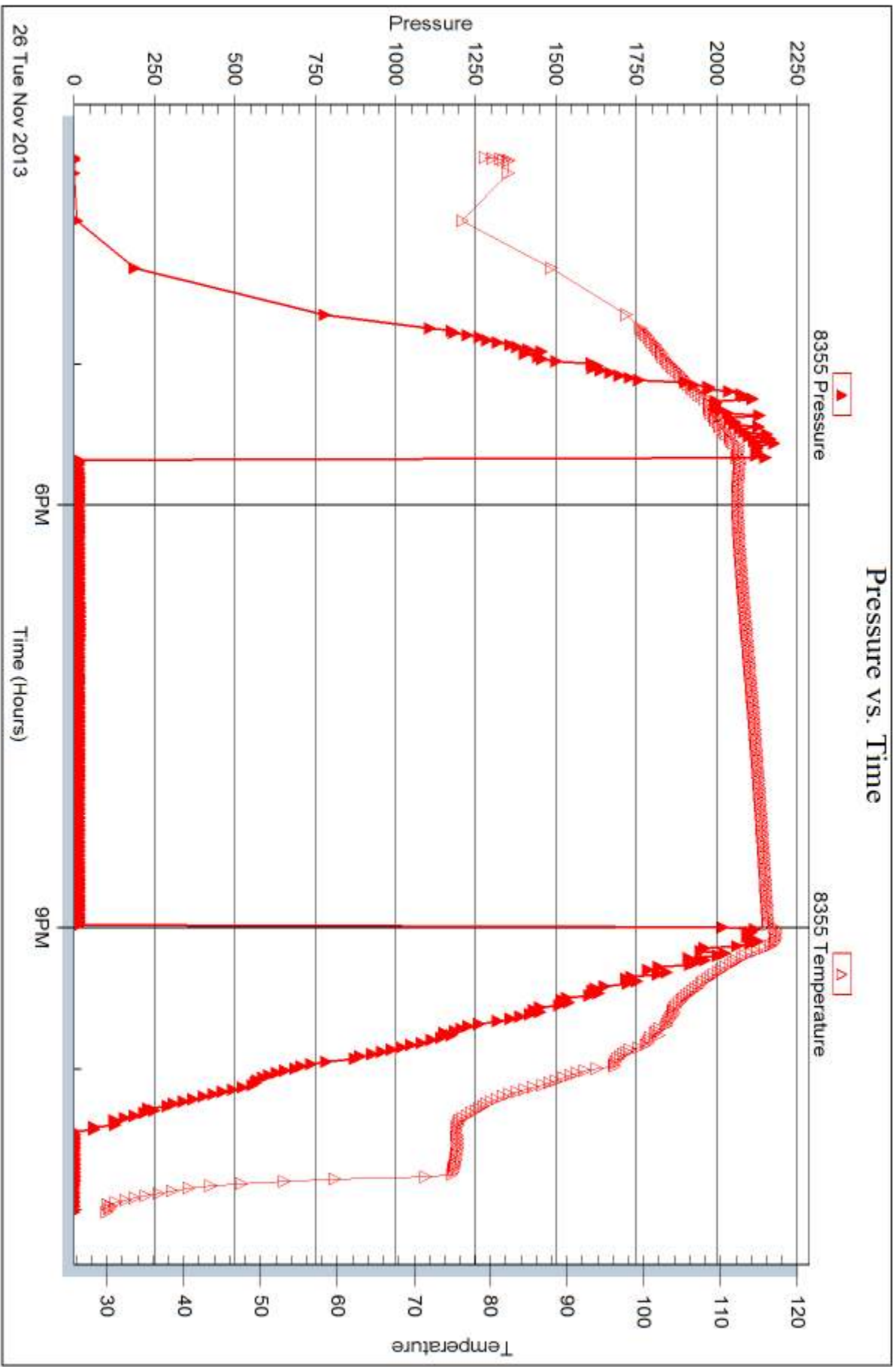
Printed: 2013.12.03 @ 13:50:31

Serial #: 8355

Outside Landmark Resources Inc.

Kebs #1-5

DST Test Number: 1



26 Tue Nov 2013

Triobite Testing, Inc

Ref. No: 53286

Printed: 2013.12.03 @ 13:50:31



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600  
Houston TX 77057

ATTN: Terry McLeod

### **Krebs #1-5**

#### **5-17s-33w Scott,KS**

Start Date: 2013.11.27 @ 07:26:00

End Date: 2013.11.27 @ 17:09:25

Job Ticket #: 53287                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.03 @ 13:49:41



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53287

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 07:26:00

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:25

Time Test Ended: 17:09:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

**Interval: 4454.00 ft (KB) To 4483.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4483.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674 Inside**

Press@RunDepth: 789.01 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.27

End Date:

2013.11.27

Last Calib.: 2013.11.27

Start Time: 07:26:00

End Time:

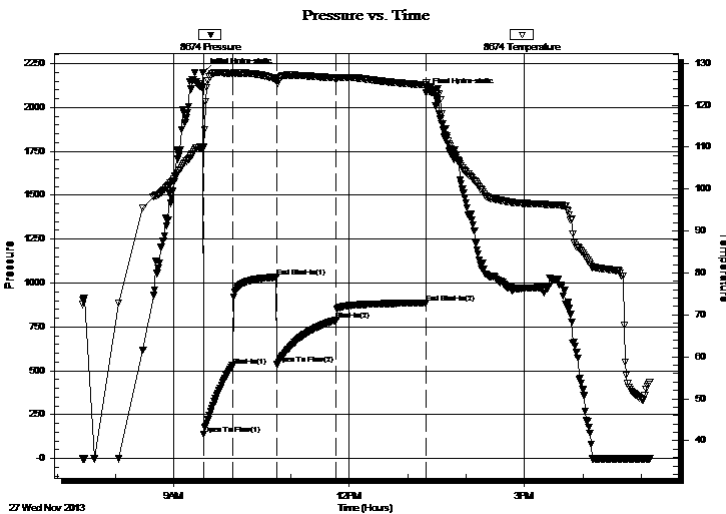
17:09:25

Time On Btm: 2013.11.27 @ 09:29:55

Time Off Btm: 2013.11.27 @ 13:19:09

**TEST COMMENT:** IF- Surface Blow Built to BOB in 1 1/2 min  
IS- Weak Surface Blow Built to 4"  
FF- Surface Blow Built to BOB in 3 1/4"  
FS- Weak Surface Blow Built to 2 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.43	110.08	Initial Hydro-static
1	139.73	109.87	Open To Flow (1)
30	528.50	127.55	Shut-In(1)
76	1033.86	126.23	End Shut-In(1)
76	535.53	125.93	Open To Flow (2)
137	789.01	126.48	Shut-In(2)
229	887.03	124.80	End Shut-In(2)
230	2083.74	125.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	MGCO 22%g 28%g 50%oil	0.30
62.00	GOCM 15%g 40%oil 45%m	0.30
2170.00	GO 32%g 68%oil	29.05
87.00	GO 20%g 80%oil	1.22
0.00	1215' of GIP	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53287

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 07:26:00

## Tool Information

Drill Pipe:	Length: 4179.00 ft	Diameter: 3.80 inches	Volume: 58.62 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose:	24000.00 lb
			<u>Total Volume: 59.98 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4454.00 ft			Final	88000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4433.00	
Shut In Tool	5.00			4438.00	
Hydraulic tool	5.00			4443.00	
Safety Joint	2.00			4445.00	
Packer	5.00			4450.00	22.00 Bottom Of Top Packer
Packer	4.00			4454.00	
Stubb	1.00			4455.00	
Recorder	0.00	8355	Outside	4455.00	
Recorder	0.00	8674	Inside	4455.00	
Perforations	23.00			4478.00	
Bullnose	5.00			4483.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53287

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 07:26:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MGCO 22%m 28%g 50%oil	0.305
62.00	GOCM 15%g 40%oil 45%m	0.305
2170.00	GO 32%g 68%oil	29.046
87.00	GO 20%g 80%oil	1.220
0.00	1215' of GIP	0.000

Total Length: 2381.00 ft      Total Volume: 30.876 bbl

Num Fluid Samples: 0

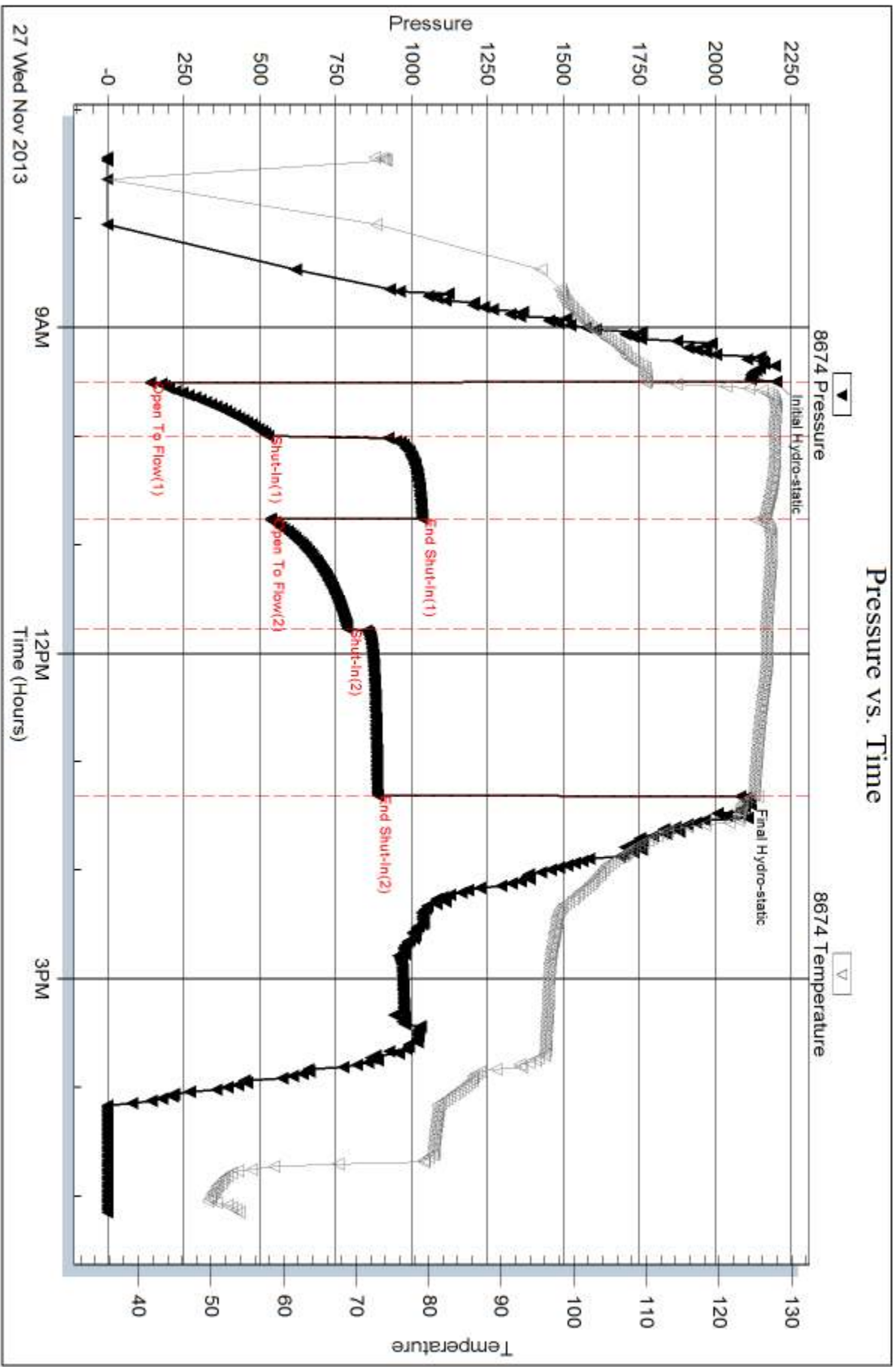
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 34 @ 50f = 35

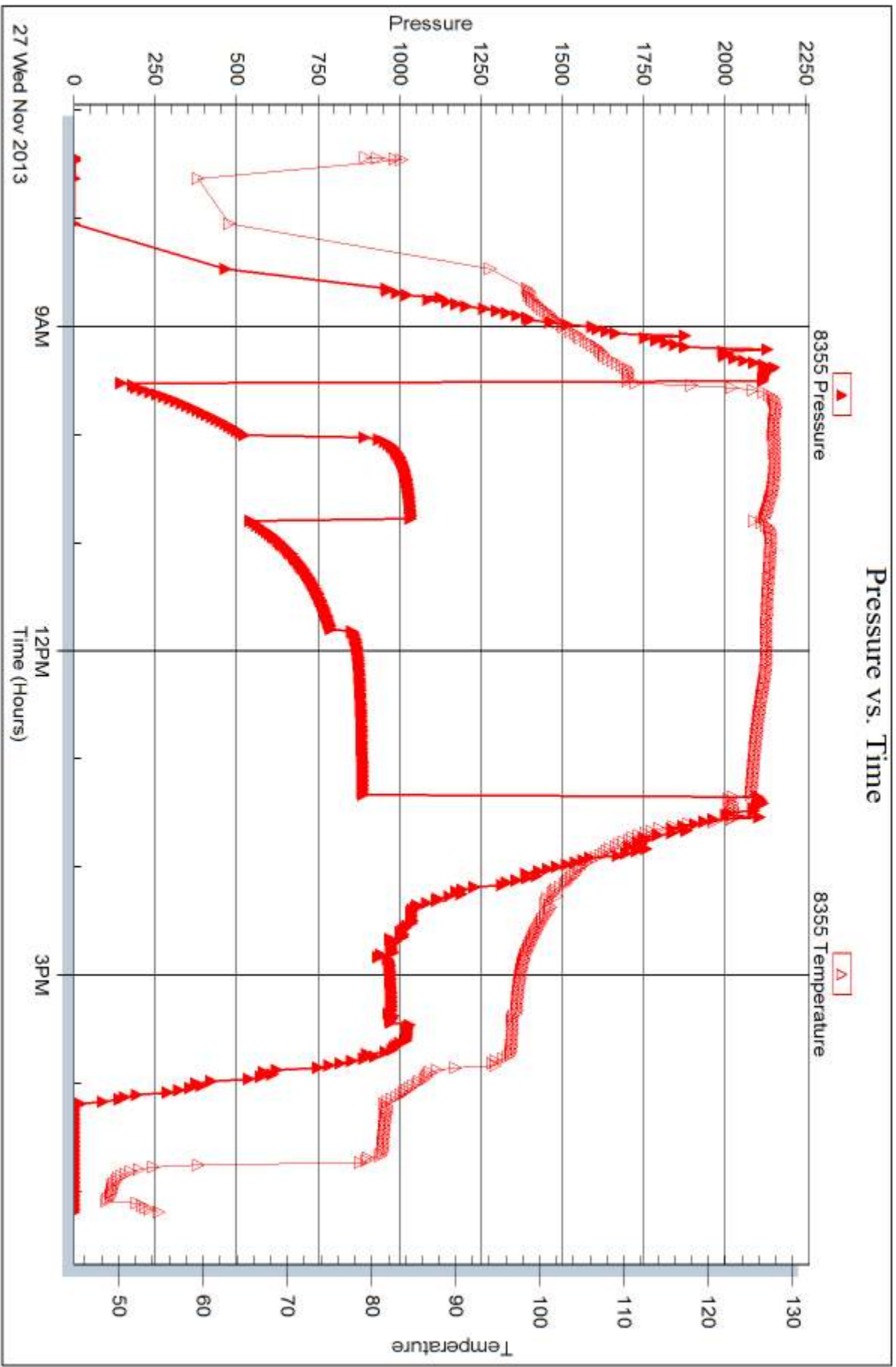


Serial #: 8355

Outside Landmark Resources Inc.

Kebs #1-5

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53287

Printed: 2013.12.03 @ 13:49:44



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600  
Houston TX 77057

ATTN: Terry McLeod

### **Krebs #1-5**

#### **5-17s-33w Scott,KS**

Start Date: 2013.11.27 @ 22:46:00

End Date: 2013.11.28 @ 06:44:09

Job Ticket #: 53288                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.03 @ 13:48:17



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53288

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:55:25

Time Test Ended: 06:44:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

**Interval: 4449.00 ft (KB) To 4488.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4488.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8674**

**Inside**

Press@RunDepth: 1153.46 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.27

End Date:

2013.11.28

Last Calib.:

2013.11.28

Start Time: 22:46:00

End Time:

06:44:09

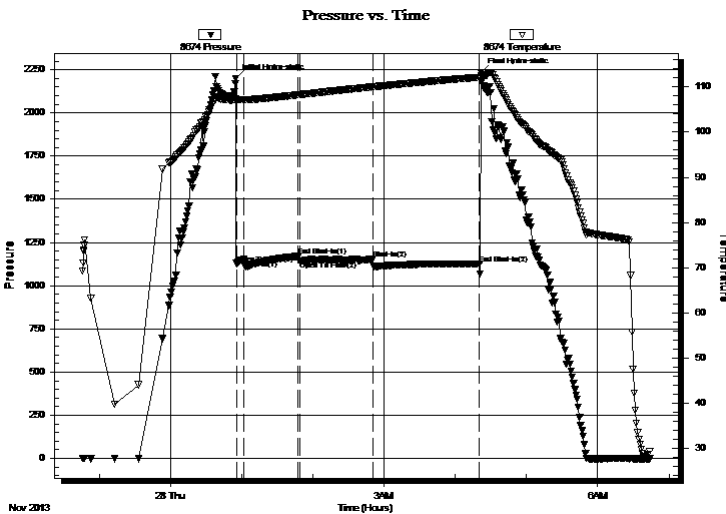
Time On Btm:

2013.11.28 @ 00:55:10

Time Off Btm:

2013.11.28 @ 04:21:39

**TEST COMMENT:** That Circulating Sub has two holes for pins that one had a weld in it i never noticed that it wasnt still welded when i changed that pin on the other side it went in the hole with that one hole open



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.28	107.50	Initial Hydro-static
1	1127.94	107.04	Open To Flow (1)
7	1151.93	107.16	Shut-In(1)
53	1170.54	108.26	End Shut-In(1)
54	1141.51	108.29	Open To Flow (2)
116	1153.46	110.05	Shut-In(2)
206	1126.16	112.16	End Shut-In(2)
207	2234.50	112.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	100% m with Oil Spots in Tool	0.61

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53288

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

**GENERAL INFORMATION:**

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:55:25

Time Test Ended: 06:44:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: **4449.00 ft (KB) To 4488.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4488.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8355 Outside**

Press@RunDepth: psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.27

End Date: 2013.11.28

Last Calib.: 2013.11.28

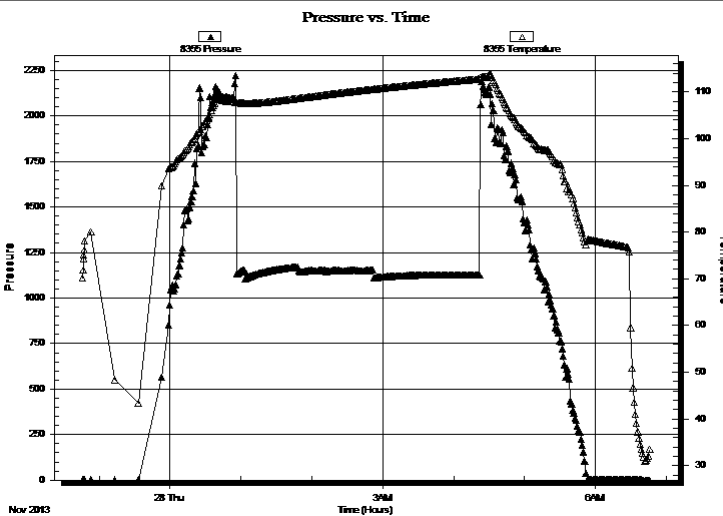
Start Time: 22:46:05

End Time: 06:45:44

Time On Btm:

Time Off Btm:

**TEST COMMENT:** That Circulating Sub has two holes for pins that one had a weld in it i never noticed that it wasnt still welded when i changed that pin on the other side it went in the hole with that one hole open



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
124.00	100% m with Oil Spots in Tool	0.61

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53288

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

## Tool Information

Drill Pipe:	Length: 4182.00 ft	Diameter: 3.80 inches	Volume: 58.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 60.02 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4449.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4428.00	
Shut In Tool	5.00			4433.00	
Hydraulic tool	5.00			4438.00	
Safety Joint	2.00			4440.00	
Packer	5.00			4445.00	22.00 Bottom Of Top Packer
Packer	4.00			4449.00	
Stubb	1.00			4450.00	
Perforations	1.00			4451.00	
Recorder	0.00	8355	Outside	4451.00	
Recorder	0.00	8674	Inside	4451.00	
Perforations	32.00			4483.00	
Bullnose	5.00			4488.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53288

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
124.00	100% m with Oil Spots in Tool	0.610

Total Length: 124.00 ft      Total Volume: 0.610 bbl

Num Fluid Samples: 0

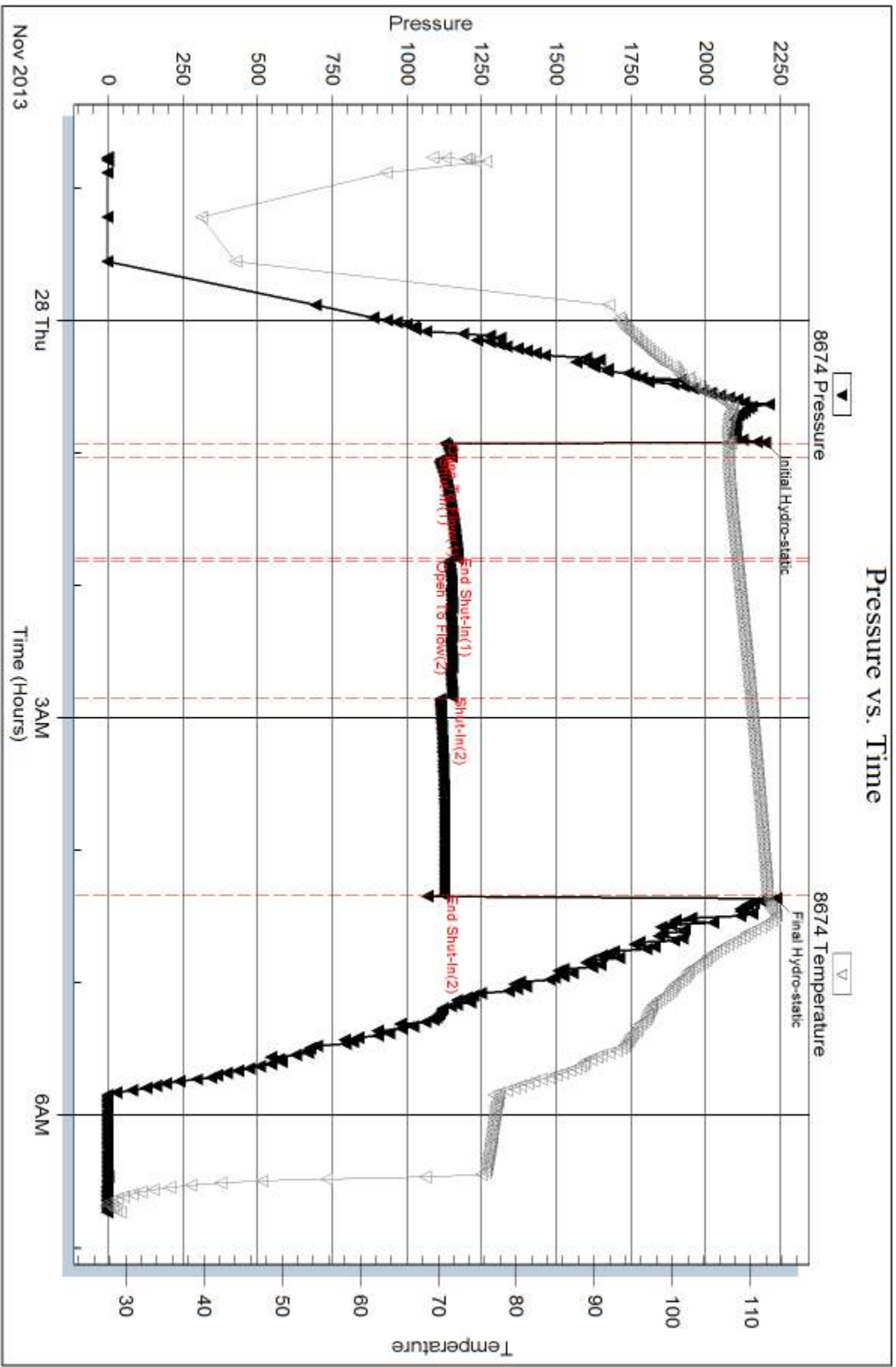
Num Gas Bombs: 0

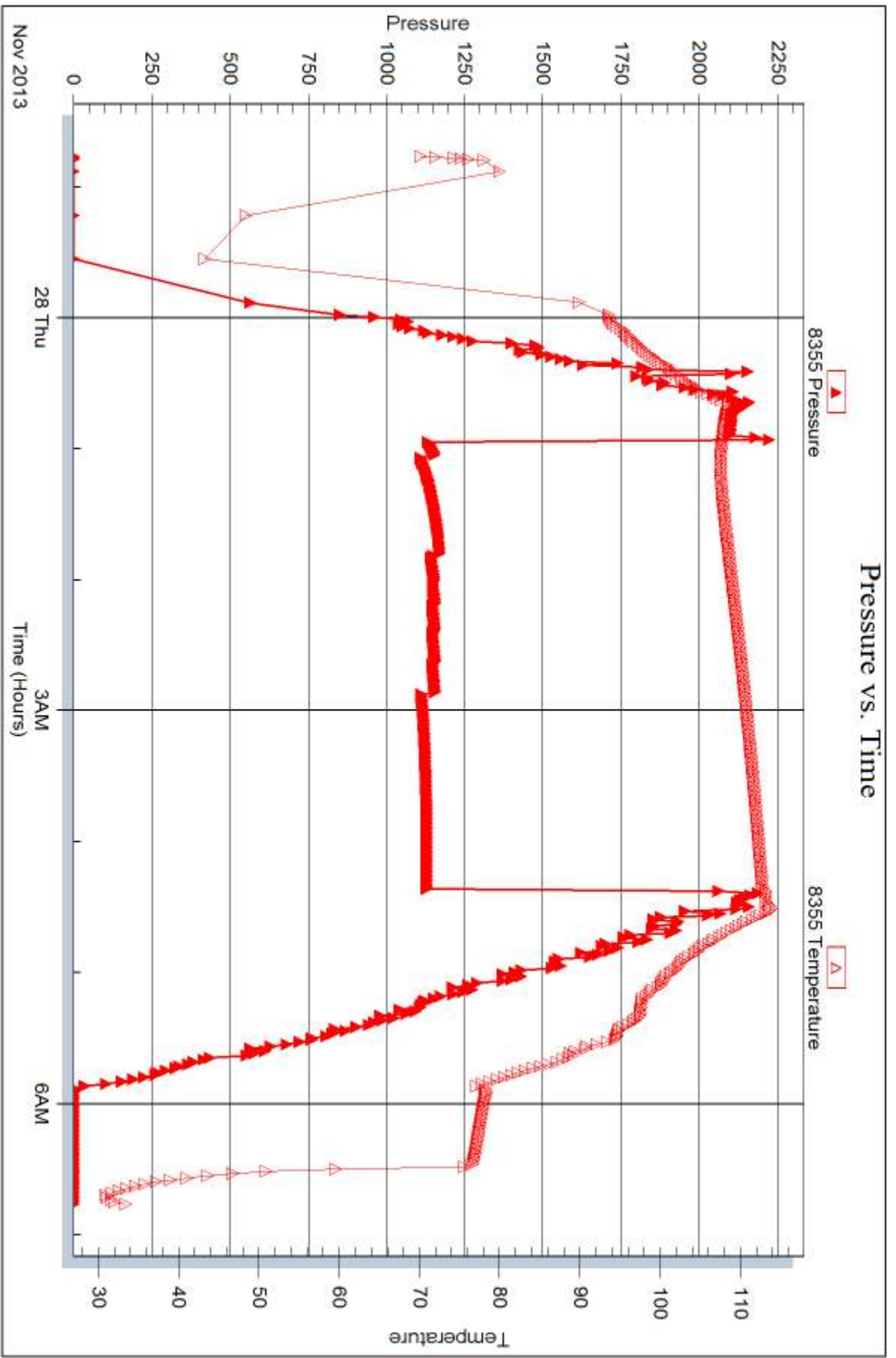
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery is invalid--- mud drained out of sub as tool w as tripped out of hole







## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600  
Houston TX 77057

ATTN: Terry McLeod

### **Krebs #1-5**

#### **5-17s-33w Scott,KS**

Start Date: 2013.11.28 @ 21:05:00

End Date: 2013.11.29 @ 05:03:39

Job Ticket #: 55557                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.03 @ 13:43:21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 55557

**DST#: 4**

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

## GENERAL INFORMATION:

Formation: **Pawnee - Myric St. -**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:00

Time Test Ended: 05:03:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4502.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3092.00 ft (KB)

3081.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6741 Inside**

Press@RunDepth: 74.36 psig @ 4507.00 ft (KB)

Start Date: 2013.11.28

End Date:

2013.11.29

Start Time: 21:05:02

End Time:

05:03:40

Capacity: 8000.00 psig

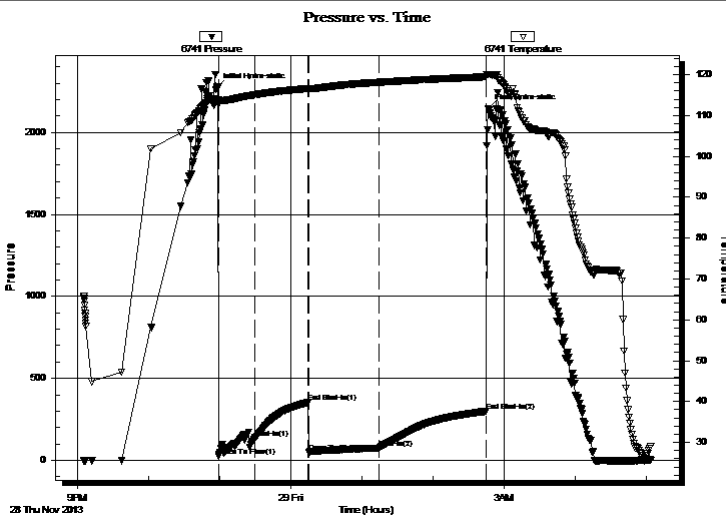
Last Calib.: 2013.11.29

Time On Btm: 2013.11.28 @ 22:57:10

Time Off Btm: 2013.11.29 @ 02:46:30

**TEST COMMENT:** 10" Blow. Some plugging.  
No return.  
B.O.B. @ 6 min.  
1/2" Return died @ 35 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.91	113.95	Initial Hydro-static
2	25.24	112.72	Open To Flow (1)
33	137.97	115.10	Shut-In(1)
78	352.65	116.62	End Shut-In(1)
78	50.04	116.52	Open To Flow (2)
137	74.36	118.14	Shut-In(2)
228	299.21	119.49	End Shut-In(2)
230	2147.02	120.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 40g 20o 40m	0.30
68.00	GOCM 5g 10o 85m	0.33
25.00	GO 15g 85o	0.12
0.00	280 Weak GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 55557                      **DST#: 4**

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

## GENERAL INFORMATION:

Formation: **Pawnee - Myric St. -**

Deviated: No      Whipstock:                      ft (KB)

Time Tool Opened: 22:59:00

Time Test Ended: 05:03:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4502.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6751      Outside**

Press@RunDepth:                      psig @      4507.00 ft (KB)

Start Date: 2013.11.28

End Date: 2013.11.29

Capacity: 8000.00 psig

Last Calib.: 2013.11.29

Start Time: 21:04:52

End Time: 05:03:39

Time On Btm:

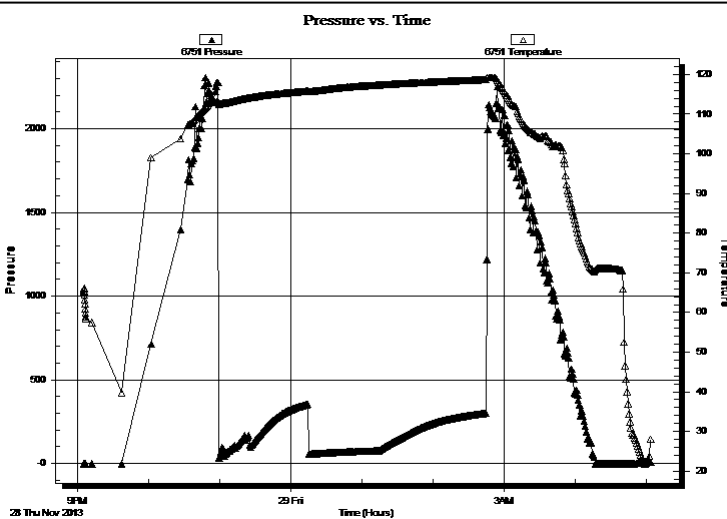
Time Off Btm:

TEST COMMENT: 10" Blow . Some plugging.

No return.

B.O.B. @ 6 min.

1/2" Return died @ 35 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 40g 20o 40m	0.30
68.00	GOCM 5g 10o 85m	0.33
25.00	GO 15g 85o	0.12
0.00	280 Weak GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 55557

**DST#: 4**

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

## Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4502.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	120.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4480.50	
Shut In Tool	5.00			4485.50	
Hydraulic tool	5.00			4490.50	
Safety Joint	2.50			4493.00	
Packer	5.00			4498.00	22.50 Bottom Of Top Packer
Packer	4.00			4502.00	
Stubb	1.00			4503.00	
Perforations	4.00			4507.00	
Recorder	0.00	6741	Inside	4507.00	
Recorder	0.00	6751	Outside	4507.00	
Perforations	25.00			4532.00	
Change Over Sub	1.00			4533.00	
Drill Pipe	63.00			4596.00	
Change Over Sub	1.00			4597.00	
Bullnose	3.00			4600.00	98.00 Bottom Packers & Anchor

**Total Tool Length: 120.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 55557

**DST#: 4**

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GOCM 40g 20o 40m	0.305
68.00	GOCM 5g 10o 85m	0.334
25.00	GO 15g 85o	0.123
0.00	280 Weak GIP	0.000

Total Length: 155.00 ft      Total Volume: 0.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

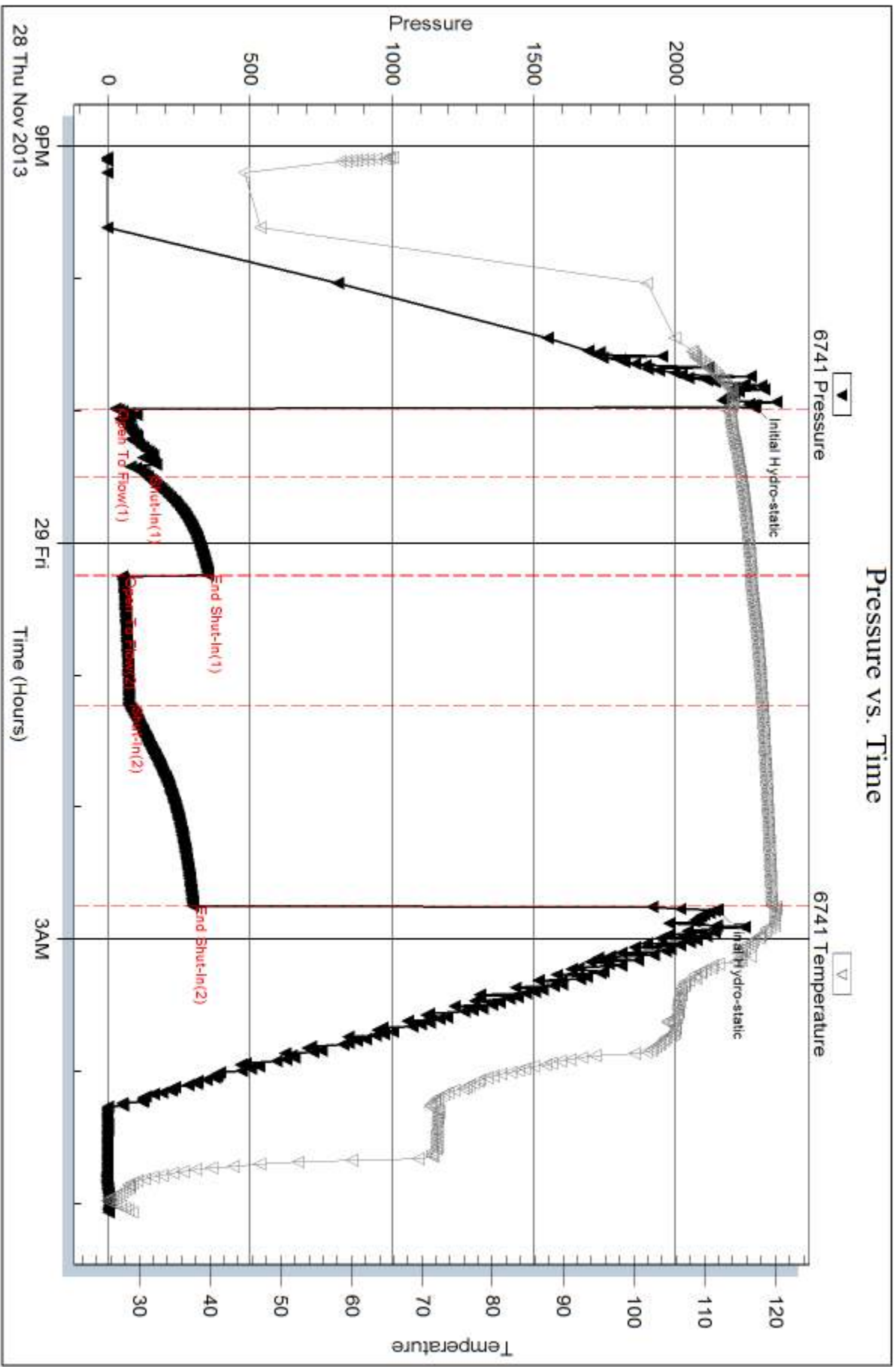
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 37 @ 20 Degrees F = 41



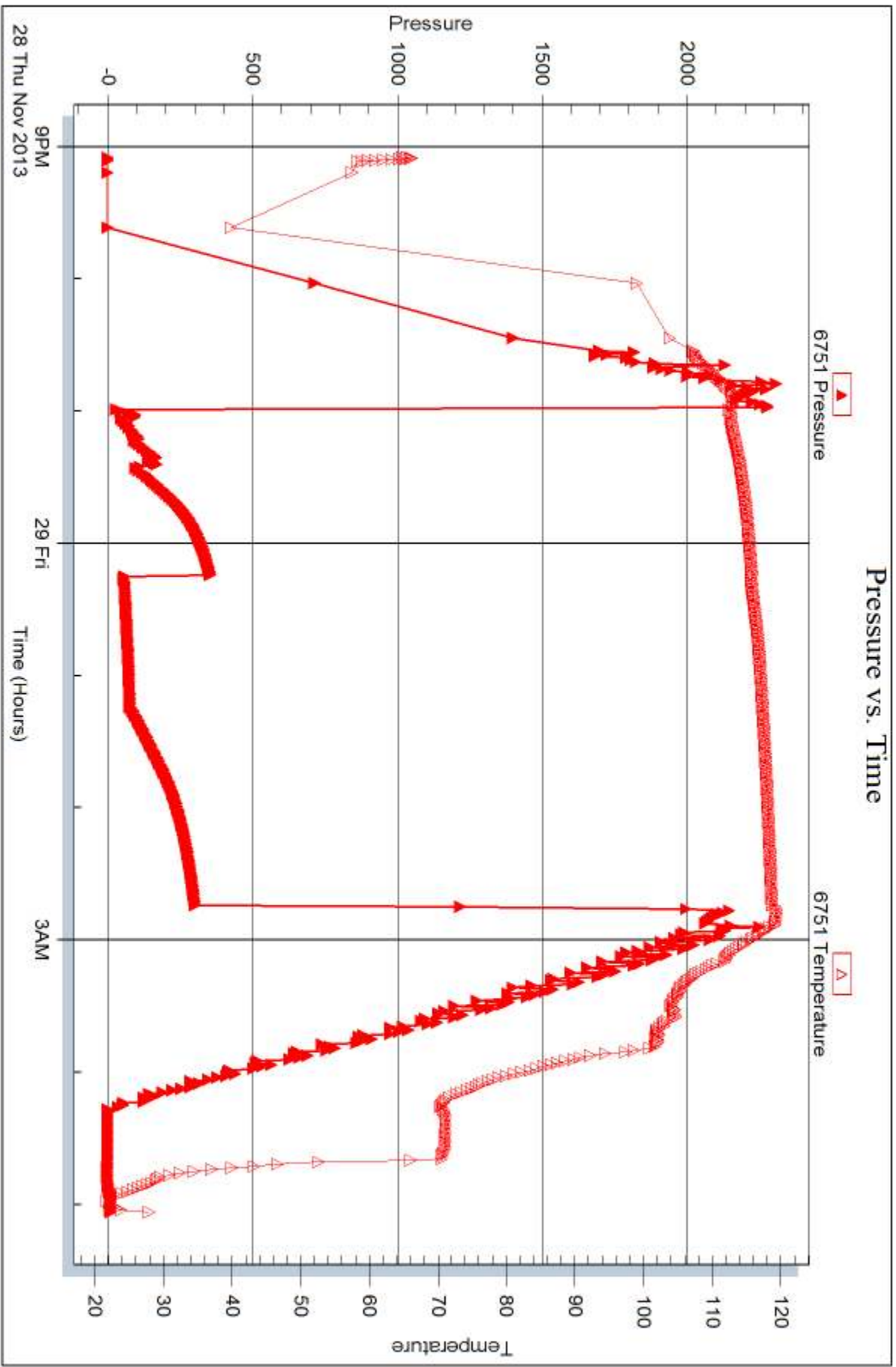


Serial #: 6751

Outside Landmark Resources Inc.

Kebs #1-5

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600  
Houston TX 77057

ATTN: Terry McLeod

### **Krebs #1-5**

#### **5-17s-33w Scott,KS**

Start Date: 2013.11.29 @ 16:32:00

End Date: 2013.11.30 @ 01:40:55

Job Ticket #: 53289                      DST #: 5

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.03 @ 13:35:50



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53289

**DST#: 5**

ATTN: Terry McLeod

Test Start: 2013.11.29 @ 16:32:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:55

Time Test Ended: 01:40:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

**Interval: 4619.00 ft (KB) To 4720.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8672 Inside**

Press@RunDepth: 263.39 psig @ 4621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.29

End Date: 2013.11.30

Last Calib.: 2013.11.30

Start Time: 16:32:00

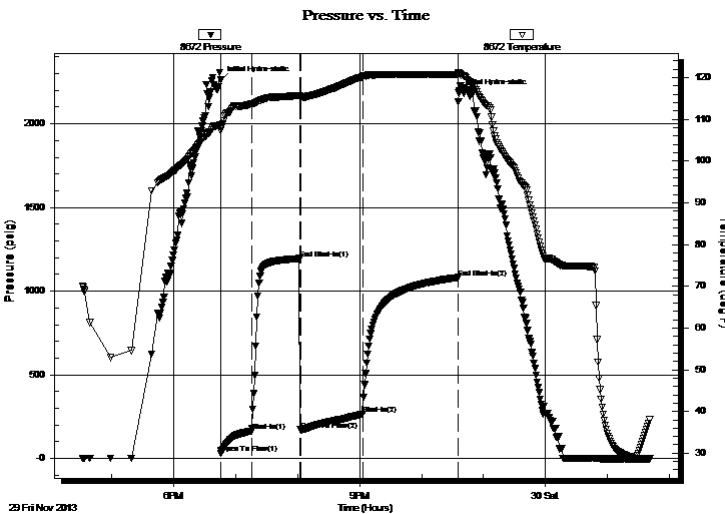
End Time: 01:40:55

Time On Btm: 2013.11.29 @ 18:45:25

Time Off Btm: 2013.11.29 @ 22:35:54

**TEST COMMENT:** IF- Weak Surface Blow Built to BOB in 15 1/4 min  
IS- Weak Surface Blow Built to 1 1/2"  
FF- Weak Surface Blow Built to BOB in 9 1/2 min  
FS- Weak Surface Blow Built to 2" Died Back to 1 1/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.39	108.80	Initial Hydro-static
1	32.04	108.07	Open To Flow (1)
30	163.00	113.70	Shut-In(1)
77	1194.27	115.69	End Shut-In(1)
78	168.88	115.31	Open To Flow (2)
138	263.39	120.18	Shut-In(2)
230	1081.06	120.73	End Shut-In(2)
231	2182.87	121.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	OGCM 5%oil 8%g 87%m	0.61
124.00	WGOCM 4%w 5%g 8%oil 83%m	0.61
62.00	OGCM 11%oil 14%g 75%m	0.61
248.00	OGCM 25%oil 34%g 41%m	3.48
10.00	GOCM 3%g 20%oil 77%m	0.14
0.00	610 Weak GIP	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53289

**DST#: 5**

ATTN: Terry McLeod

Test Start: 2013.11.29 @ 16:32:00

## Tool Information

Drill Pipe:	Length: 4336.00 ft	Diameter: 3.80 inches	Volume: 60.82 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 26000.00 lb
			<u>Total Volume: 62.18 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4619.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4598.00	
Shut In Tool	5.00			4603.00	
Hydraulic tool	5.00			4608.00	
Safety Joint	2.00			4610.00	
Packer	5.00			4615.00	22.00 Bottom Of Top Packer
Packer	4.00			4619.00	
Stubb	1.00			4620.00	
Perforations	1.00			4621.00	
Recorder	0.00	8355	Outside	4621.00	
Recorder	0.00	8672	Inside	4621.00	
Perforations	29.00			4650.00	
Change Over Sub	1.00			4651.00	
Drill Pipe	63.00			4714.00	
Change Over Sub	1.00			4715.00	
Bullnose	5.00			4720.00	101.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Landmark Resources Inc.

**5-17s-33w Scott,KS**

1616 S. Voss Rd Ste 600  
Houston TX 77057

**Krebs #1-5**

Job Ticket: 53289

**DST#: 5**

ATTN: Terry McLeod

Test Start: 2013.11.29 @ 16:32:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29500 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	OGCM 5%oil 8%g 87%m	0.610
124.00	WGOCM 4%w 5%g 8%oil 83%m	0.610
62.00	OGCM 11%oil 14%g 75%m	0.606
248.00	OGCM 25%oil 34%g 41%m	3.479
10.00	GOCM 3%g 20%oil 77%m	0.140
0.00	610 Weak GIP	0.000

Total Length: 568.00 ft

Total Volume: 5.445 bbl

Num Fluid Samples: 0

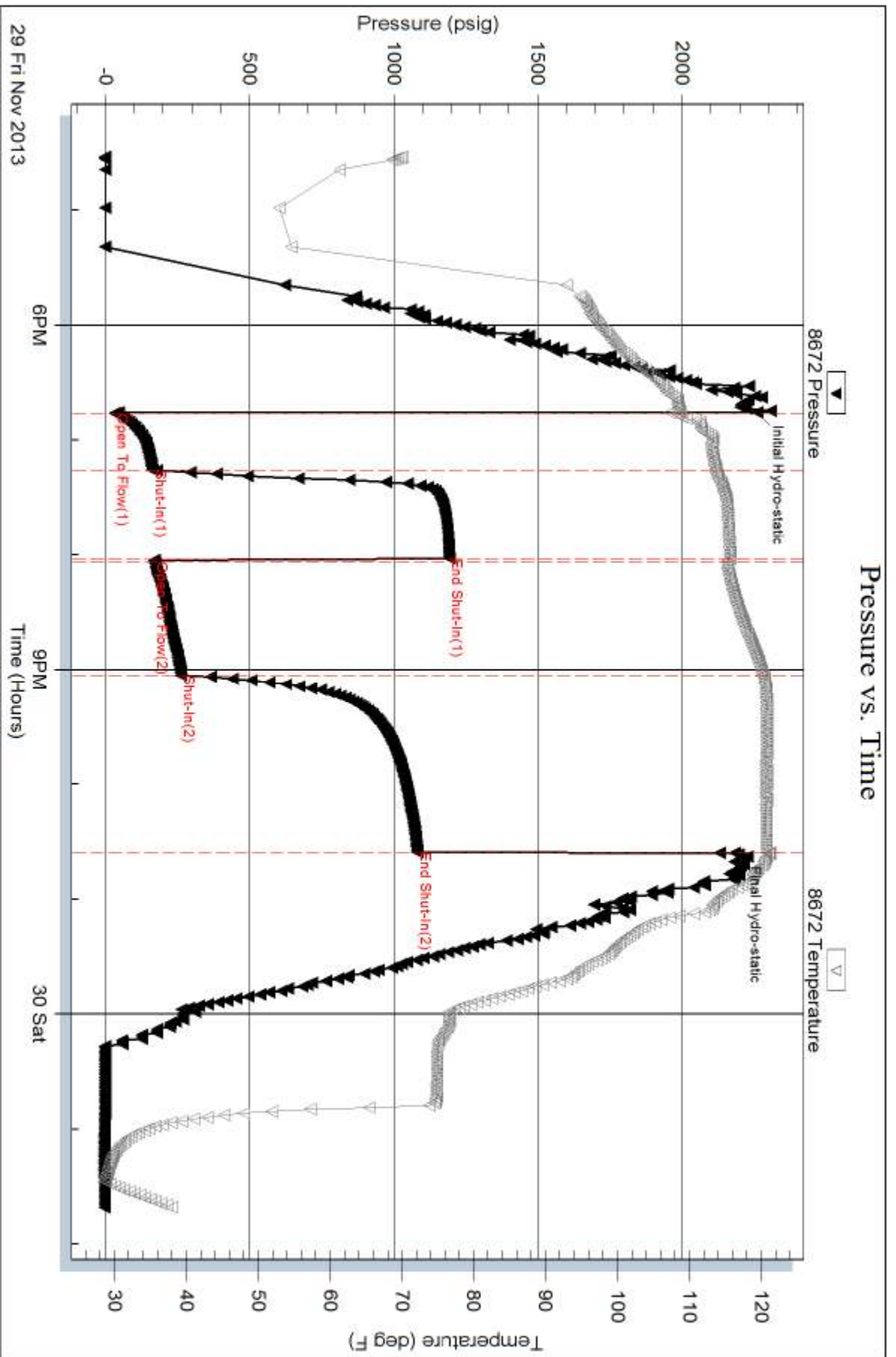
Num Gas Bombs: 0

Serial #:

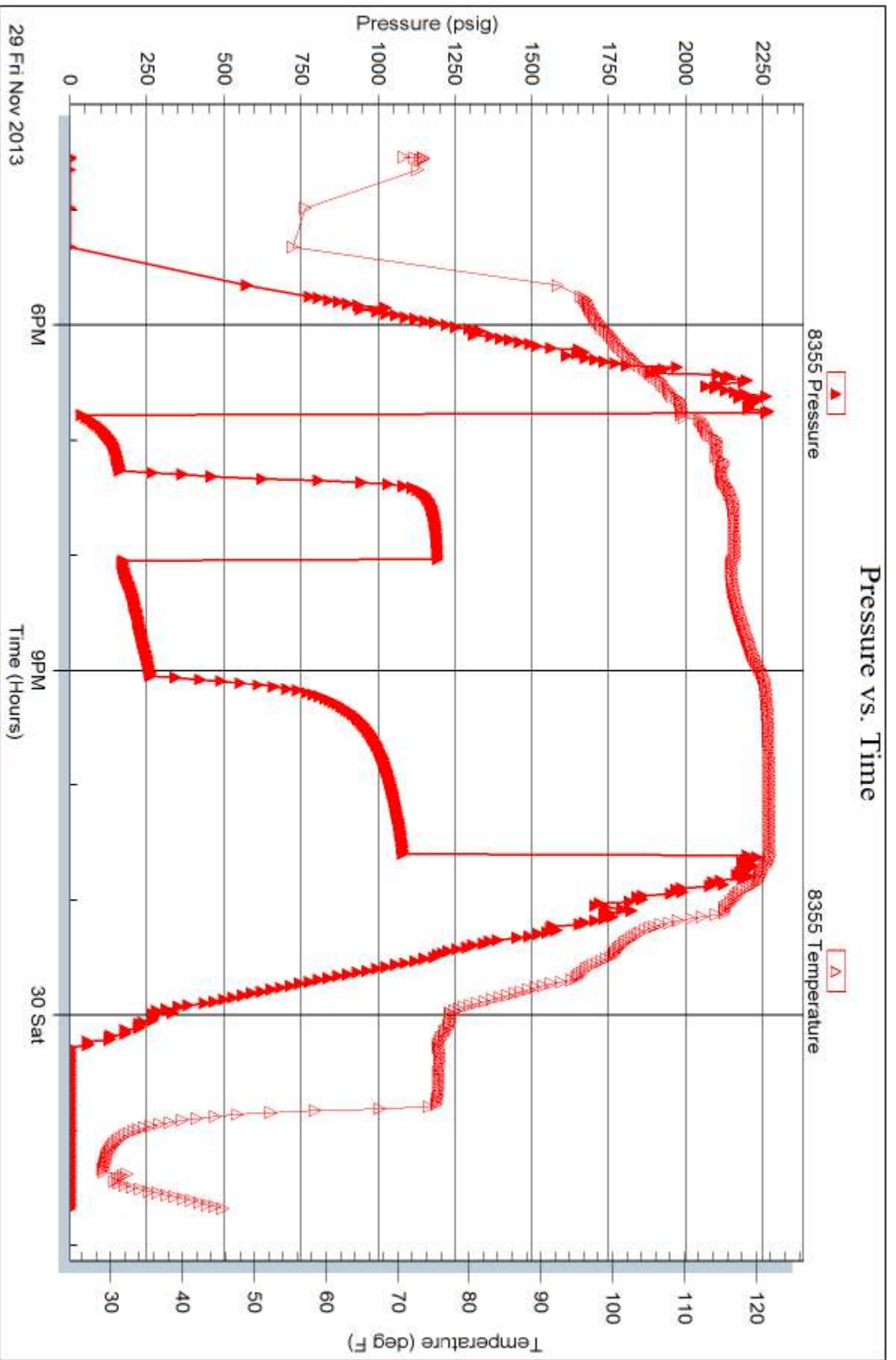
Laboratory Name:

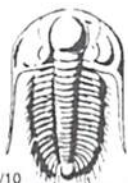
Laboratory Location:

Recovery Comments: RW is .352 @ 45f = 29,500









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53286

4/10

Well Name & No. Krebs #1-5 Test No. DST #1 Date 11-26-13  
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL  
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057  
 Co. Rep / Geo. \_\_\_\_\_ Rig Martin 21  
 Location: Sec. 5 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4441 - 4457 Zone Tested Marmanton  
 Anchor Length 16 Drill Pipe Run 4152 Mud Wt. 9.1  
 Top Packer Depth 4437 Drill Collars Run 277 Vis 53  
 Bottom Packer Depth 4441 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4457 Chlorides 3400 ppm System LCM 316

Blow Description IF - 1/4" Blow Dried Back to Weak Surface Blow  
ISF - No Blow  
FF - No Blow  
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

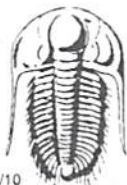
Rec Total 2 BHT 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2156  Test 1250 T-On Location 12:30  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 15:32  
 (C) First Final Flow 15  Safety Joint 75 T-Open 17:39  
 (D) Initial Shut-In 19  Circ Sub NIC T-Pulled 20:58  
 (E) Second Initial Flow 15  Hourly Standby \_\_\_\_\_ T-Out 22:59  
 (F) Second Final Flow 16  Mileage 43.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 19  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2083  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1368.40  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1368.40

Approved By \_\_\_\_\_ Our Representative Wm Martin

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53287

Well Name & No. Krebs #1-5 Test No. DST #2 Date 11-27-13  
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL  
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057  
 Co. Rep / Geo. Terry McLeod Rig Morfin 21  
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4454 - 4483 Zone Tested Altamont  
 Anchor Length 29 Drill Pipe Run 4179 Mud Wt. 9.1  
 Top Packer Depth 4450 Drill Collars Run 277 Vis 53  
 Bottom Packer Depth 4454 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4483 Chlorides 3400 ppm System LCM 3/6

Blow Description FF - Surface Blow Built to BOB in 1 1/2 min  
ISI - Wear Surface Blow Built to 4"  
FF - Surface Blow Built to BOB in 3 1/4 min  
FSI - Well Surface Blow Built to 2 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
87	G-O	20	80		
2170	G-O	32	68		
62	G-O-C-M	15	40		45
62	M-G-C-O	28	50		22
	Feet of <u>1215' of GJP</u>	%gas	%oil	%water	%mud

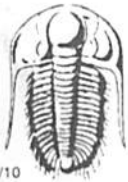
Rec Total \_\_\_\_\_ BHT 125 Gravity 35 API RW ~~35~~ @ ~~50~~ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2200  Test 1250 T-On Location 6:40  
 (B) First Initial Flow 139  Bars \_\_\_\_\_ T-Started 7:26  
 (C) First Final Flow 528  Safety Joint 75 T-Open 9:30  
 (D) Initial Shut-In 1033  Circ Sub Dropped Bar 50 T-Pulled 13:19  
 (E) Second Initial Flow 535  Hourly Standby \_\_\_\_\_ T-Out 17:09  
 (F) Second Final Flow 789  Mileage 43.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 887  Sampler \_\_\_\_\_ API 34 @ 50 f = 35  
 (H) Final Hydrostatic 2083  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 60  Day Standby \_\_\_\_\_ Total 1418.40  
 Final Shut-In 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1418.40

Approved By Terry L. McLeod Our Representative Nick Maddox

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53288

Well Name & No. Krebs #1-5 Test No. DST #3 Date 11-27-13  
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL  
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057  
 Co. Rep / Geo. Terry McLeod Rig Murfin 21  
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4449 - 4488 Zone Tested Altamont  
 Anchor Length 39 Drill Pipe Run 4182 Mud Wt. 9.2  
 Top Packer Depth 4445 Drill Collars Run 277 Vis 58  
 Bottom Packer Depth 4449 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4488 Chlorides 4300 ppm System LCM 316  
 Blow Description IF - Weak Surface Blow 1/2"  
ISI - No Blow  
FF - No Blow  
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>Mud with Oil Spots in Tool</u>				

Rec Total \_\_\_\_\_ BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2198  Test 1050 T-On Location 22:28  
 (B) First Initial Flow 1127  Jars \_\_\_\_\_ T-Started 22:46  
 (C) First Final Flow 1151  Safety Joint 75 T-Open 00:55  
 (D) Initial Shut-In 1170  Circ Sub \_\_\_\_\_ T-Pulled 4:21  
 (E) Second Initial Flow 1141  Hourly Standby \_\_\_\_\_ T-Out 6:44  
 (F) Second Final Flow 1153  Mileage 28 RIT 43.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1126  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2234  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 5  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1168.40 ??  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1168.40 ??

Approved By Terry McLeod Our Representative Tom Mack

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55557

Well Name & No. Krebs #1-5 Test No. 4 Date 11-28-13  
 Company Landmark Resources Inc. Elevation 3092 KB 3081 GL  
 Address 1616 S. Voss Rd. STE 600 Houston, TX 77057  
 Co. Rep / Geo. Terry McLeod Rig M.D.C. #21  
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State Ks

Interval Tested 4502-4600 Zone Tested Pawnee-Myric St. - Fr. Scott  
 Anchor Length 98 Drill Pipe Run 4210 Mud Wt. 9.2  
 Top Packer Depth 4498 Drill Collars Run 277 Vis 55  
 Bottom Packer Depth 4502 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4600 Chlorides 5000 ppm System LCM 2"

Blow Description 10" Blow Some plugging.  
No return.  
B.O.B. @ 6 min  
1/2" Return died @ 35 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>25</u>	Feet of <u>60</u>	<u>15</u> %gas	<u>85</u> %oil	%water	%mud
Rec <u>68</u>	Feet of <u>GOCM</u>	<u>5</u> %gas	<u>10</u> %oil	%water	<u>85</u> %mud
Rec <u>62</u>	Feet of <u>GOCM</u>	<u>40</u> %gas	<u>20</u> %oil	%water	<u>40</u> %mud
Rec	Feet of <u>280' Weak GIP</u>	%gas	%oil	%water	%mud

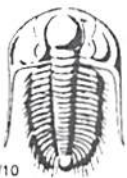
Rec Total 155 BHT 120 Gravity 41 API RW @ ° F Chlorides — ppm

(A) Initial Hydrostatic 2274  Test 1250 T-On Location 19:45  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 9:05  
 (C) First Final Flow 138  Safety Joint 75 T-Open 22:  
 (D) Initial Shut-In 353  Circ Sub NIC T-Pulled 2:  
 (E) Second Initial Flow 50  Hourly Standby \_\_\_\_\_ T-Out 5:04  
 (F) Second Final Flow 74  Mileage 43.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 299  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2147  Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1368.40  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1368.40

Approved By Jay L. McLeod Our Representative Chuck Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **53289**

4/10

Well Name & No. Krebs #1-5 Test No. DST #5 Date 11-29-13  
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL  
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057  
 Co. Rep / Geo. Terry McLeod Rig Murfin 21  
 Location: Sec. 5 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4619-4720 Zone Tested Johnson  
 Anchor Length 101 Drill Pipe Run 4336 Mud Wt. 9.2  
 Top Packer Depth 4615 Drill Collars Run 277 Vis 54  
 Bottom Packer Depth 4619 Wt. Pipe Run 0 WL 10.8  
 Total Depth 4720 Chlorides 8500 ppm System LCM 2/b

Blow Description IF - Weak Surface Blow Built to B013 in 15 1/4 min  
ISI - Weak Surface Blow Built to 1 1/2"  
FF - Weak Surface Blow Built to B013 in 9 1/2 min  
FSI - Weak Surface Blow Built to 2" Drud Back to 1 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0-0CM</u>	<u>3</u>	<u>20</u>	<u>77</u>	
<u>248</u>	<u>00-CM</u>	<u>34</u>	<u>25</u>	<u>41</u>	
<u>62</u>	<u>00-CM</u>	<u>14</u>	<u>11</u>	<u>75</u>	
<u>134</u>	<u>W0-0CM</u>	<u>5</u>	<u>8</u>	<u>4</u>	<u>83</u>
<u>124</u>	<u>00-CM</u>	<u>8</u>	<u>5</u>		<u>87</u>

Rec Total 568 BHT 122 Gravity \_\_\_\_\_ API RW 352 @ 45 F Chlorides 29500 ppm

- (A) Initial Hydrostatic 2260
- (B) First Initial Flow 22
- (C) First Final Flow 163
- (D) Initial Shut-In 1194
- (E) Second Initial Flow 168
- (F) Second Final Flow 263
- (G) Final Shut-In 1081
- (H) Final Hydrostatic 2182

- Test 1250
- Jars \_\_\_\_\_
- Safety Joint 75
- Circ Sub NIC
- Hourly Standby \_\_\_\_\_
- Mileage 28R/T 86.80
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_

T-On Location 15:18  
 T-Started 16:32  
 T-Open 18:45  
 T-Pulled 22:35  
 T-Out 1:40

Comments 610' of Weak G-IP  
loaded tools 11/30 9:00

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 60  
 Final Shut-In 90

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1411.80  
 MP/DST Disc't \_\_\_\_\_

Sub Total 1411.80

Approved By Terry McLeod Our Representative Will Mc



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

*PP*  
DEC 16 2013  
#44928

# INVOICE

Invoice Number: 140150  
Invoice Date: Dec 1, 2013  
Page: 1

91730  
30,662.12

APPROVED DEC 16 2013

Bill To:
Landmark Resources, Inc. 1616 S. Voss Suite 600 Houston, TX 77057-1264

Customer ID	Field Ticket #	Payment Terms	
Land	62176	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Dec 1, 2013	12/31/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Krebs #1-5		
5.00	CEMENT MATERIALS	Gel	23.40	117.00
150.00	CEMENT MATERIALS	ASC	20.90	3,135.00
16.00	CEMENT MATERIALS	Salt	26.35	421.60
460.00	CEMENT MATERIALS	Light Weight	15.95	7,337.00
900.00	CEMENT MATERIALS	Gilsonite	0.98	882.00
12.00	CEMENT MATERIALS	Super Flush	58.40	700.80
724.16	CEMENT SERVICE	Cubic Feet Charge	2.48	1,795.92
2,573.98	CEMENT SERVICE	Ton Mileage Charge	2.60	6,692.35
1.00	CEMENT SERVICE	Production -- Bottom Stage	2,765.75	2,765.75
1.00	CEMENT SERVICE	Production -- Top Stage	2,406.25	2,406.25
43.00	CEMENT SERVICE	Pump Truck Mileage	7.70	331.10
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
43.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	189.20
1.00	EQUIPMENT SALES	5-1/2 D V Tool	5,335.26	5,335.26
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	408.33	408.33
1.00	EQUIPMENT SALES	5-1/2 Latch Down Plug	324.09	324.09
12.00	EQUIPMENT SALES	5-1/2 Centralizer	57.33	687.96
2.00	EQUIPMENT SALES	5-1/2 Basket	394.29	788.58
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	OPERATOR ASSISTANT	Kevin Ryan		

APPROVED DEC 16 2013

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 7,573.71

ONLY IF PAID ON OR BEFORE  
Dec 26, 2013

# ALLIED OIL & GAS SERVICES, LLC 062176

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley, KS

DATE <u>12-1-13</u>	SEC. <u>5</u>	TWP. <u>17</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>10:00 am</u>	JOB START <u>1:20 pm</u>	JOB FINISH <u>2:00 pm</u>
LEASE <u>Krebs</u>		WELL # <u>1-5</u>		LOCATION <u>Dakley, 375 to Hwy 4,</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>482 W, N into</u>			

CONTRACTOR Murfin 21  
 TYPE OF JOB Production  
 HOLE SIZE 7 7/8 T.D. 4825'  
 CASING SIZE 5 1/2 DEPTH 4811'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL DV Tool DEPTH 2415  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.16  
 CEMENT LEFT IN CSG. 42.16  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 113.5 bbl

OWNER same  
 CEMENT AMOUNT ORDERED 150 sks ASC 102 salt  
6 1/2 sks Royal 1261 Super Flush  
460 sks Lite Va # 80 seal  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GBL 5514 @ 3.50 19300  
 CHLORIDE 26.20 @ 13.20 3458.40  
 ASC 150 sks @ 20.70 3105.00  
Lite @ 7.25 1087.50  
Salt 16 sks @ 26.35 421.60  
Lite 460 sks @ 15.75 7232.00  
gilsonite 900# @ .98 882.00  
 Super Flush 1261 @ 58.40 700.80  
 HANDLING 728.34 @ 2.48 1795.74  
 MILEAGE 28.76 @ 2.50 71.90  
29.93 @ 2.50 74.83  
 TOTAL 21076.62

EQUIPMENT  
 PUMP TRUCK CEMENTER Larone E. Ewente  
 # 423/281 HELPER Kevin Ryan  
 BULK TRUCK DRIVER Chris Helpingstine  
 # 396/306  
 BULK TRUCK DRIVER Brandon Wilkinson  
 # 818/287

REMARKS:  
Pump ball through 200#  
Circulate 1 1/2 hrs. Mix Super Flush  
Mix 150 sks cement. Displace with  
mad water. Land plug 1600# float held.  
Open DV tool 800 #. Cement 1550  
Circulate 4 hrs. Plug R.H. 30 sks,  
mix 5 sks cement. Displace with water  
land plug 2000# float held.  
Thank you

SERVICE  
 DEPTH OF JOB 4811'  
 PUMP TRUCK CHARGE Bottomstage 2765.75  
 EXTRA FOOTAGE Topstage 2406.25  
 MILEAGE MFHU 43 @ 7.70 331.10  
 MANIFOLD Head @ \_\_\_\_\_  
MFCU 43 @ 4.40 187.20

CHARGE TO: Landmark Resources  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 5767.30

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT  
DV Tool 5335.26  
API Float Shoe @ 405.33  
Latch down plug @ 324.09  
(12) Centralizers @ 52.33 627.96  
(2) Baskets @ 394.29 788.58  
 TOTAL 7544.22

PRINTED NAME \_\_\_\_\_  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 34,608.21  
 DISCOUNT 7,577.91 IF PAID IN 30 DAYS  
B.d. 27,030.29 net.



BID SHEET



Date	11/21/13
Service Point:	Oakley
Manager	Terry Heinrich
Address	P.O. Box 27 Oakley, KS 67748
Business Phone	785-672-3452
E-mail	terry.heinrich@allied.com
Mobile	785-673-9376

			Well Data				
Company	Landmark Resources	Prepared For:	Heather Bain	Open Hole	7 7/8	Depth	5000
Address	1616 Voss Rd., Ste. 150	Title:	Controller			I.D.	7.875
Address	Houston TX 77057	Business Phone:	713-243-8550			Job Excess	25
Well Name	Rose, Beeson, Decker	E-mail:	heather@landmarkresources.com	Casing Size	6 1/2	Depth	5000
Lease	# 1-3, # 1-1, # 3-9	Fax No.:	713-243-8551			O.D.	5.5
Field		Prepared By:	Neal Rupp			I.D.	4.892
County	Scott	Title:	Sales & Field Operations Manager			Casing Weight	17
State	Kansas	Business Phone:	316-260-3368			Thread	STC
Section	9	E-mail:	neal.rupp@alliedservices.com			Grade	K-55
Township	17S	Mobile Phone:	316-250-7057				
Range	34W	Rig Contractor	Unknown				
API Number		Rig Name					
Proposal Title:	5-1/2" 2-Stage	Rig Phone					

	Units	UOM	Cost per Unit	Total	Unit	
					Net	Net
CJ50 - Casing Pump Charge 4001' to 5000'	1.00	(for 6 hours	\$2,765.75	\$ 2,765.75	\$ 1,991.34	\$1,991.34
APTM - Additional Pump Time, in excess of set h	1.00	(for 6 hours	\$2,406.25	\$ 2,406.25	\$ 1,732.50	\$1,732.50
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 5,172.00		\$3,723.84
Float Shoe	1.00	Each	\$339.30	\$ 339.30	\$ 339.30	\$339.30
Stage Collar	1.00	Each IR	\$2,597.50	\$ 2,597.50	\$ 2,597.50	\$2,597.50
Centralizer	12.00	Each	\$28.40	\$ 340.80	\$ 28.40	\$340.80
Cement Basket	3.00	Each	\$159.40	\$ 478.20	\$ 159.40	\$478.20
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 3,755.80		\$3,755.80
ASCA - ALLIED SPECIAL BLEND CMT - CLASS A	175.00	per sack	\$20.90	\$ 3,657.50	\$ 15.05	\$2,633.40
ALC2A - ALLIED LT-WT: CMT TYPE 2 - CLASS A	2450.00	per sack	\$15.95	\$ 7,177.50	\$ 11.48	\$5,167.80
FL160 - FL160 Fluid Loss Additive HI-Temp	49.00	per pound	\$18.90	\$ 926.10	\$ 13.61	\$666.79
PDEF - Powdered Defoamer	25.00	per pound	\$9.80	\$ 245.00	\$ 7.06	\$176.40
GILS - Gilsonite	1050.00	per pound	\$0.98	\$ 1,029.00	\$ 0.71	\$740.88
FEST - Flo Seal	112.00	per pound	\$2.97	\$ 332.64	\$ 2.14	\$239.50
SPFL - Super Flush	12.00	per bbl	\$58.70	\$ 704.40	\$ 42.26	\$507.17
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 14,072.14		\$10,131.94
HDLG - Products handling service charge	740.00	per cu: Ft.	\$2.48	\$ 1,835.20	\$ 1.79	\$1,321.34
DRYG - Drayage for products	1240.00	ton mile	\$2.60	\$ 3,224.00	\$ 1.87	\$2,321.28
MILV - Light Vehicle Mileage	40.00	per mile	\$4.40	\$ 176.00	\$ 3.17	\$126.72
MIHV - Heavy Vehicle Mileage	40.00	per mile	\$7.70	\$ 308.00	\$ 5.54	\$221.76
Subtotal				\$ 5,543.20		\$3,991.10
CMHD - Cementing Head Rental with Manifold	1.00	per day	\$275.00	\$ 275.00	\$ 198.00	\$198.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 275.00		\$198.00
Totals:				\$ 28,818.14		\$21,800.68
DISCOUNT: Operations			28.0%	(1,448.16)		
DISCOUNT: Equipment Sales			0.0%	0.00		
DISCOUNT: Products			28.0%	(3,940.20)		
DISCOUNT: Transport			28.0%	(1,552.10)		
DISCOUNT: OTHER			28.0%	(77.00)		
			Total	(7,017.46)		



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139938

Invoice Date: Nov 21, 2013

Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Landmark Resources, Inc. 1616 S. Voss Suite 600 Houston, TX 77057-1264

71730  
Pd  
DEC 03 2013  
#

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Land	61192	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-01	Oakley	Nov 21, 2013	12/21/13

44817  
44653.98

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Krebs #1-5		
210.00	CEMENT MATERIALS	Class A Common	17.90	3,759.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
4.00	CEMENT MATERIALS	Chloride	64.00	448.00
7.00	CEMENT MATERIALS	Cubic Feet	2.48	561.97
226.60	CEMENT SERVICE	Ton Mileage	2.60	1,076.40
414.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
1.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
40.00	CEMENT SERVICE			
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		

APPROVED NOV 30 2013

Subtotal		7,935.22
Sales Tax		350.50
Total Invoice Amount	0 * *	8,285.72
Payment/Credit App		
<b>TOTAL</b>	2,221.86 - 8,285.72 + 6,063.86 * +	<b>8,285.72</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 2,221.86

ONLY IF PAID ON OR BEFORE  
Dec 16, 2013



BID SHEET



Date	11/21/13
Service Point:	Oakley
Manager	Terry Heinrich
Address	P.O. Box 27
	Oakley, KS 67748
Business Phone	785-672-3452
E-mail	terry.heinrich@allied.com
Mobile	785-673-9376

				Well Data			
Company	Landmark Resources, Inc.	Prepared For:	Heather Bain	Open Hole	12 1/4	Depth	250
Address	1616 Vos, Suite 600	Title:	Controller			I.D.	12.25
Address	Houston Texas 77057	Business Phone:	713-243-8550			Job Excess	100
Well Name	Rosé, Beeson, Decker	E-mail:	heather@landmarkresources.com	Casing Size	8 5/8	Depth	250
Lease	# 1-3, 1-1, 3-9	Mobile Phone:				O.D.	8.6875
Field		Prepared By:	Neal Rupp			I.D.	7.825
County	Scott	Title:	Sales & Field Operations Manag			Casing Weight	24
State	Kansas	Business Phone:	316-260-3368			Thread	STC
Section	9	E-mail:	neal.rupp@alliedservices.com			Grade	J-55
Township	17S	Mobile Phone:	316-250-7057				
Range	34W	Rig Contractor	Unknown				
API Number		Rig Name					
Proposal Title:	Surface Casing	Rig Phone					

	Units	UOM	Cost per Unit	Total	Unit	
					Net	Net
CIMN - Casing Pump Charge 0 to 300'	1.00	(for 6 hours)	\$1,512.25	\$ 1,512.25	\$ 1,088.82	\$1,088.82
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 1,512.25		\$1,088.82
	0.00	Each	POR	\$ -	\$ -	\$0.00
	0.00	Each	POR	\$ -	\$ -	\$0.00
	0.00	Each	POR	\$ -	\$ -	\$0.00
	0.00	Each	POR	\$ -	\$ -	\$0.00
	0.00	Each	POR	\$ -	\$ -	\$0.00
	0.00	Each	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ -		\$0.00
CAC - CLASS A COMMON	210.00	per sack	\$17.90	\$ 3,759.00	\$ 12.89	\$2,706.48
CACL - Calcium Chloride	7.00	per sack	\$64.00	\$ 448.00	\$ 46.08	\$322.56
PGEL - Premium Gel (Bentonite)	4.00	per sack	\$23.40	\$ 93.60	\$ 16.85	\$67.39
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 4,300.60		\$3,096.43
HDLG - Products handling service charge	226.60	per cu. Ft.	\$2.48	\$ 561.97	\$ 1.79	\$404.62
DRYG - Drayage for products	414.00	ton mile	\$2.60	\$ 1,076.40	\$ 1.87	\$775.01
MILV - Light Vehicle Mileage	40.00	per mile	\$4.40	\$ 176.00	\$ 3.17	\$126.72
MIHV - Heavy Vehicle Mileage	40.00	per mile	\$7.70	\$ 308.00	\$ 5.54	\$221.76
Subtotal				\$ 2,122.37		\$1,528.10
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ -		\$0.00
Totals:				\$ 7,935.22		\$5,713.36
DISCOUNT: Operations			28.0%	(423.43)		
DISCOUNT: Equipment Sales			0.0%	0.00		
DISCOUNT: Products			28.0%	(1,204.17)		
DISCOUNT: Transport			28.0%	(594.26)		
DISCOUNT: OTHER			28.0%	0.00		
			Total	(2,221.86)		